

## **GRANT APPLICATIONS For Research Pertaining to:**

### ***Characterization of Utah's Geologic Resources – FY 2015***

<http://geology.utah.gov/emp/research/solicitation/index.htm>

#### **PURPOSE OF REQUEST FOR SOLICITATION**

For several years the Utah Geological Survey has outsourced research to improve understanding of Utah's natural resources. The purpose of this solicitation is to enter into a contract (or contracts) with a qualified individual or firm to provide geologic research on Utah's: (1) oil and natural gas resource potential, (2) unconventional oil and gas resources such as tar sands and oil shale, (3) geothermal resources, (4) economic metals, (5) industrial minerals, (6) groundwater resources, and (7) geologic studies that will improve understanding of Utah's geologic resources. The goal of this work is to sustain development through diversification of energy, metal, and mineral, supplies and mitigate the impacts of boom – bust cycles. It is anticipated that this solicitation may result in several contracts being awarded. The Utah Geological Survey anticipates awarding up to six individual contracts at a maximum \$25,000 each. Lower cost proposals will be welcomed.

#### **SUBMITTING YOUR PROPOSAL**

Email or send a CD, in Acrobat pdf format your proposal by **4:00 P.M. on Friday, May 30, 2014**. The UGS can not accept attachments larger than 20 MB.

Proposals received after the deadline will be late and ineligible for consideration.

Send proposals to:

[craigmorgan@utah.gov](mailto:craigmorgan@utah.gov)

with cc to

[cherylgustin@utah.gov](mailto:cherylgustin@utah.gov)

If you are concerned that the electronic file may not transfer correctly, you can send a hard copy to the address below prior to the deadline.

Utah Geological Survey  
C/O Craig D. Morgan  
Research Proposals  
P. O. Box 146100  
Salt Lake City, Utah 84114  
or

Utah Geological Survey  
C/O Craig D. Morgan  
Research Proposals  
1594 West North Temple, Suite 3110  
Salt Lake City, Utah 84116

## **LENGTH OF CONTRACT**

We anticipate awarding several contracts by June 30, 2014. The Contracts resulting from this solicitation will be for a period of twelve (12) months (ending June 30, 2015), but all work must be completed, all deliverables and reports must be submitted, at or before the end of eleven (11) months (May 29, 2015). The final month of the contract will allow the UGS to review the report and deliverables and request changes or additional information as needed. The Contract may *not be extended beyond June 30, 2015 deadline.*

If student and/or field work schedules conflict with a July start date, we will consider a later start date, up to September 1, 2014. The length of the contact (12 months) and deliverable due date (11 months from start of contact) will remain the same.

## **PRICE GUARANTEE PERIOD**

All pricing for FY 2015 proposals must be guaranteed for the ***entire term of the contract.***

## **STANDARD CONTRACT TERMS AND CONDITIONS**

Any contract resulting from this solicitation will include the State's standard terms and conditions. Payment will be made by monthly invoice for activities as defined in the milestone schedule (see 2C Proposal Response Format). In addition, the Utah Geological Survey will retain one quarter of the contract funding until the contractor has provided all deliverables and are deemed acceptable by the Utah Geological Survey. The State's Standard Terms and Conditions (agency contract form) may be accessed at:

<http://www.purchasing.utah.gov/forms/index.html>

## **QUESTIONS**

All questions must be submitted in writing to Craig Morgan via email at: [craigmorgan@utah.gov](mailto:craigmorgan@utah.gov) or via fax at: 801-537-3400. Questions are due by 5:00 P.M. May 19, 2014. Questions received after that date may not be answered. Answers will be given via email and as an addendum posted on the Utah Geological Survey's website <http://geology.utah.gov/emp/research/solicitation/index.htm>

## **DISCUSSIONS WITH OFFERORS (ORAL PRESENTATION)**

An oral presentation by an Offeror to clarify a proposal may be required at the sole discretion of the Utah Geological Survey. However, the Utah Geological Survey may award a contract based on the initial proposals received without discussion with the Offeror. If oral presentations are required, they will be

scheduled after the submission of proposals. Oral presentations will be made at the Offeror's expense.

### **PROPRIETARY INFORMATION**

The proposal of the successful Offeror(s) becomes public information. Proprietary information can be protected under limited circumstances. Pricing and service elements are not considered proprietary. An entire proposal may not be marked as proprietary. Offerors must clearly identify in the Executive Summary and mark in the body of the proposal any specific proprietary information they are requesting to be protected. The Executive Summary must contain specific justification explaining why the information is to be protected. Proposals may be reviewed and evaluated by any person at the discretion of the Utah Geological Survey. All materials submitted become the property of the Utah Geological Survey and may be returned only at the Utah Geological Survey's option.

### **SPECIAL NOTES**

1. These grants are funded by monies based on the State of Utah fiscal year, which begins July 1, and ends June 30. All work, deliverables, and reports, must be completed on or before May 29, 2015 and all invoices must be received on or before July 31, 2015 unless a later date has been negotiated.
2. The cost of preparation and shipping of core, cuttings, and other materials from the Utah Geological Survey will not be absorbed by the Utah Geological Survey and should be included in the Offeror's proposed cost budget.
3. All deliverables and reports must be submitted in both hard copy and electronic format.

### **DISCUSSION OF TYPE OF RESEARCH PROPOSALS BEING SOUGHT**

The Utah Geological Survey is soliciting geologic research proposals to help improve the characterization of Utah's hydrocarbon, geothermal, groundwater, metal, and industrial mineral potential primarily at the play level, but also at the field, basin, or province scale. The proposal can be a maximum of \$25,000 for a period of twelve (12) months (11 months of research and 1 month for review) (FY 2015). The objective of the geologic research is to fulfill one or more of the following: (1) improve the state's assessment of its geologic resources, (2) identify reservoir features, untapped compartments, or recovery techniques to encourage more effective exploitation of proven reserves, (3) improve the understanding of the play's depositional history, trapping mechanism, and/or source, and (4) general geologic studies that may provide insight into Utah's fossil energy, geothermal, economic metal, industrial mineral, and groundwater potential.

The proposal must represent original work that has not been published

before. The research and all deliverables will become public domain and cannot be proprietary or copyrighted material. The Utah Geological Survey reserves the right to release, publish or make available in any form, all deliverables, data and material submitted, to the public. Payment schedule will be negotiated between the contractor and the Utah Geological Survey and will be based on the deliverable and milestone schedule described in the statement of work.

The proposed geologic research can include but is not limited to: (1) resource assessment of one or more plays that builds on the work of the Utah Geological Survey, U.S. Geological Survey or U.S. Department of Energy, (2) reservoir or aquifer characterization and geologic modeling of a type field, basin, region or play, (3) stratigraphic studies of hydrocarbon reservoirs, economic metals, and industrial minerals, including surface to subsurface correlations, (4) petrophysical studies, (5) geochemical studies including source rock or groundwater analysis, (6) basin modeling and analysis, (7) characterization or geologic modeling of unconventional resources such as tar sands and oil shale, and (8) geological, geophysical, or geochemical mapping. Also, smaller, low-cost proposals that may involve compiling extensive previous work into usable databases will be considered.

The proposal needs to describe the: (1) planned research, (2) approach, (3) benefit to the State under one or more of the objectives outlined in the first paragraph, (4) deliverables (products), (5) time schedule for deliverables, and (6) a milestone schedule that can be used for tracking progress of the work. Deliverables should include maps, cross sections, final interpretative report and databases, all in paper and electronic form (specify format), to fully support the research. Databases should contain well and sample locations, formation tops and thickness, porosity and permeability data, source rock chemistry, and any other data relevant to the proposed research. The databases and research in general should represent something that can be updated and built on in the future.

## **PROPOSAL REQUIREMENTS AND QUALIFICATIONS**

The Offeror must be a degreed geoscientist preferably with experience in the Rocky Mountain region. Research by graduate students is encouraged, but the contract will be with the academic advisor or academic institution, with the advisor as the principle investigator. The work experience qualification requirements will be based on the experience of the academic advisor. Include information about the student, if the student has qualifying work experience. The final report and any publications resulting from the research can be authored by the student with all appropriate coauthors (this will be determined by the academic advisor and the student).

## **PROPOSAL RESPONSE FORMAT**

All proposals must be organized and labeled with the following headings:

**1. Title and Executive Summary.** The one page executive summary is to briefly describe the Offeror's proposal. This summary should highlight the major features of the proposal. It must indicate any requirements that cannot be met by the Offeror. The reader should be able to determine the essence of the proposal by reading the Executive Summary. Proprietary information requests should be identified in this section.

**2. Detailed Description.** This section (maximum of 5 pages of text) should constitute the major portion of the proposal and must contain at least the following information:

**2A. Technical discussion:** A complete narrative of the work to be performed, the Offeror's ability and approach, and the resources necessary to fulfill the requirements. This should demonstrate the Offeror's understanding of the desired overall performance expectations. Clearly indicate any options or alternatives proposed. Describe how the proposal will fulfill the objectives of the solicitation.

**2B. Deliverables:** A discussion or list of deliverables that will result from the research. This should include at a minimum any relevant maps and cross sections as well as database(s), and a final report. Deliverables should be submitted in both hard copy and digital format: include what file format you will use. Include a schedule of deliverables with a date of submission for each deliverable.

**2C. Statement of work:** A clear and concise schedule of activities with a milestone schedule that can be used to help monitor the progress of the work.

**3. Cost Proposal.** Please enumerate all costs on the attached Cost Proposal Form.

**4. Qualifications:** A written **Description of Rocky Mountain Experience** is required (not to exceed one page) describing your geoscience experience in the Rocky Mountain States. A **Resume** is required to be submitted as well.

## **PROPOSAL EVALUATION CRITERIA**

A committee of Utah Geological Survey geologists will evaluate proposals against the following weighted criteria.

<u>WEIGHT</u>	<u>EVALUATION CRITERIA</u>
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40 %	Original research that supports the Utah Geological Survey's efforts to clearly assess and encourage new development of Utah's hydrocarbon, metal, industrial mineral, or groundwater resources.
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- 30%            Quality of proposed deliverables.
- 15 %           Demonstrated technical capability (proven track record, has available resources to carry out proposed work, etc.).
- 15%            Cost (individual proposals requiring more than \$25,000 from UGS will not be evaluated).

## COST PROPOSAL

**Cost is to be submitted based on the following:  
(Any deviation from this format may result in disqualification of proposal)**

	PROJECT COST*	COST TO UGS
(A) Number of hours (of all workers)	<i>Hours</i>	<i>Hours</i>
(B) Total personnel costs** (of all workers)	\$	\$
(C) Average hourly rate (B/A) =	\$	\$
(D) Subcontracting expense (Describe who and for what in comments below)	\$	\$
(E) Lab Analysis	\$	\$
(F) Travel expense (Describe where and why in comments)	\$	\$
(G) Material expenses: (Printing, shipping costs, etc.)	\$	\$
(H) Total direct costs (B plus D through G)	\$	\$
(I) General and Administration costs	\$	\$
<b><u>TOTAL PROJECT COST</u></b> (H+I)	\$	_____
<b><u>TOTAL COST TO UGS</u></b> (H + I) <b><u>(Not to exceed \$25,000)</u></b>	_____	\$

\* A project may cost more to complete than the amount you are requesting from the Utah Geological Survey (UGS). Please state in the comments or attach an additional page to the cost proposal, if you have additional funding for the project or intend to cost share a portion of the total cost of the project. This information is necessary to evaluate if a project can be reasonably accomplished for the costs stated.

\*\* Personnel costs includes wage and benefits.

**COMMENTS:**